



**RICHARD P.
FEYNMAN**
CENTER FOR INNOVATION
at Los Alamos National Laboratory

Community invited to learn about emerging technologies

July 6, 2016

DisrupTech showcases innovation from Los Alamos National Laboratory

LOS ALAMOS, N.M., July 6, 2016—New technologies emerging from Los Alamos National Laboratory that address everything from fusion energy to medical testing will be on display for members of the community, investors and business leaders at the DisrupTech showcase, Thursday, July 14, starting at 1:00 p.m. at the Los Alamos Golf Course Event Center.

“We call it DisrupTech because we’re showcasing technologies that have the potential to disrupt existing markets or even create new ones,” explained David Pesiri, head of the Laboratory’s Richard P. Feynman Center for Innovation, which is co-hosting the event.

“At Los Alamos, scientists are working every day to develop new technologies to solve the world’s biggest problems. This showcase is a chance to shine a spotlight on that work and help link science and industry.” The New Mexico Angels, the state’s leading angel investing group, will co-host the event.

“Los Alamos is in a unique position to develop technologies for commercial use that can literally change the world,” said John Chavez of the New Mexico Angels. “These scientists are some of the brightest minds in their fields. DisrupTech gives them a great opportunity to reframe their technology pitch in a way that approaches a problem and then share this with the community.”

DisrupTech sponsors include the State of New Mexico Economic Development Department and Technology Ventures Corporation as well as the New Mexico Start Up Factory II, Phase One Ventures LLC, Los Alamos Chamber of Commerce and the Regional Development Corporation.

The following scientists will present their technologies to a private-sector panel in hopes of garnering support to bring the ideas to industry:

- Pulak Nath and Jennifer Harris present PuLMo, a breathing “lung” bioreactor. This technology mimics critical functions of the human lung and can be adapted to develop other organs for use as a testing platform to study the effect of a wide range of chemicals on the human body. It could significantly reduce the time and costs associated with bringing a new drug to market.
- Youzuo Lin presents how to employ a big-data technique to accurately locate and explore geothermal energy. Nine western states together have the geothermal potential to provide over 20 percent of the nation’s electricity needs. Lin’s research provides a novel, machine-learning-based, multi-physics solution for an accurate characterization of the subsurface reservoirs.

- Dylan Harp presents technology to evaluate the reliability of predictive models on rare events. Scientists and engineers develop predictive models using the data they have. But when extreme events occur far outside of past experience, the models' predictions are often revealed to be grossly inaccurate, with disastrous consequences. Harp's technology is used to understand the robustness of decisions subjected to potential extreme events.
- David Thompson presents a technology that could revolutionize high-time-resolution, low-light imaging. This improved imaging could be used for national security, scientific, medical and commercial needs, including auto and aviation collision avoidance and autonomous operation, as well as medical imaging.
- Scott Hsu presents an alternative nuclear-fusion approach as a baseload power source to reduce our dependence on fossil fuels, which are limited in supply and contribute to carbon emissions into the atmosphere. Hsu proposes developing nuclear fusion as a safe, secure, economical and carbon-free form of electricity production.

Tickets to DisrupTech can be purchased at www.LANLDisrupTech.com.

About [Los Alamos National Laboratory](#)

Los Alamos National Laboratory, a multidisciplinary research institution engaged in strategic science on behalf of national security, is operated by Los Alamos National Security, LLC, a team composed of Bechtel National, the University of California, BWXT Government Group, and URS, an AECOM company, for the Department of Energy's National Nuclear Security Administration.

Los Alamos enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

RICHARD P. FEYNMAN CENTER FOR INNOVATION

www.lanl.gov/feynmancenter | (505) 667-9090 | feynmancenter@lanl.gov